

Amendments to the Specification:

Please replace the paragraph starting at line 13 of page 8 with the following amended paragraph:

“In addition, the frequency synthesizer F1 comprises a frequency divider 5 for dividing an output signal from the VCO 1 on the basis of the frequency division ratio previously set according to the control signal, and a mixer unit 6 for mixing an output signal from the frequency divider ~~2~~ 5 and the output signal from the VCO 1A, which are the differential ~~point~~ points as compared with the conventional frequency synthesizer shown in Fig. ~~4~~ 5.”

Please replace the paragraph starting at line 24 of page 8 with the following amended paragraph:

~~Different point~~ The difference between the VCO 1A of the first embodiment and the VCO 1 shown in Fig. 2 is that the switch SW and the variable capacitor ~~C2~~ Cv corresponding to the frequency switching function are not provided for the VCO 1A. ~~Remained~~ The remaining points of the VCO 1A, except for the specified different points, are the same as for the VCO 1.